

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-3-82  
Relating to Certification of New Motor Vehicle Heavy-Duty Engines

DAIMLER-BENZ AG

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Daimler-Benz AG 1987 model-year heavy-duty diesel engines have shown compliance with the transient test procedure and standards and are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
HDB 5.96 FPC 2	364 (5.96)	Engine Modification Smoke Puff Limiter (Turbocharger) (Intercooler)
HDB 9.97 FPC 1	608 (9.97)	Engine Modification Smoke Puff Limiter (Turbocharger) (Intercooler)

Engine models and codes are listed on attachments.

The following are the certification emission values for these engine families:

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>
HDB 5.96 FPC 2	0.9	3.2	4.8
HDB 9.97 FPC 1	0.6	2.6	4.6

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order.

Executed at El Monte, California this 27<sup>th</sup> day of November, 1986.



K. D. Drachand, Chief  
Mobile Source Division

## 1987 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer DAIMLER-BENZ AG Engine Family HDB 5.96 FPC 2  
Evaporative Family \_\_\_\_\_ Engine Type L6  
Liters (CID) 5.96 (364)

## ABBREVIATIONS

Ignition System

CA-Centrifugal Advance  
EEC-Electronic Engine Control  
EI-Electronic Ignition  
ESAC-Electronic Spark Advance Control  
VA-Vacuum Advance  
VR-Vacuum Retard

Exhaust Emissions Control System

AIP-Air Injection-Pump  
AIV-Air Injection-Valve  
CL-Closed Loop  
EGR-Exhaust Gas Recirculation  
EM-Engine Modification  
OC-Oxidation Catalyst System  
SPL-Smoke Puff Limiter or Throttle Delay  
TOC-Trap Oxidizer, Continual  
TOP-Trap Oxidizer, Periodical  
TR-Thermal Reactor  
TWC-Three-Way Catalyst System

Special Features

CCV-Combustion Chamber Valve  
CFI-Central Fuel Injection  
DID-Diesel Injection-Direct  
DIP-Diesel Injection-Prechamber  
EFI-Electronic Fuel Injection  
IC-Intercooler or aftercooler  
MFI-Mechanical Fuel Injection  
TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI  
nV-nVenturi Carburetor

VEHICLE MODELS:

Engine: Front \_\_\_\_\_ Mid. \_\_\_\_\_ Rear \_\_\_\_\_

Drive: FWD \_\_\_\_\_ RWD \_\_\_\_\_ 4WD Full Time \_\_\_\_\_ 4WD Part Time \_\_\_\_\_

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HEAVY-DUTY DIESEL ENGINES

Manufacturer DAIMLER-BENZ AG Engine Family HDB 5.96 FPC 2  
Liter (CID) 5.96 (364) Eng. Type L6  
Emission Control Sys. and (Special Features) EM-SPL (DID-TC-IC)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)
OM 366 LA	Bosch PES 6 MW 100/720 RS 1120	Bosch DLA 142 S 1013/BR	180/2600	79-83 (67.9-71.3)	430 lbs.-ft. @ 1500	84-88 (43.4-45.4)

Date of Issue 10/28/86 Revisions:

Manufacturer DAIMLER-BENZ AG Engine Family HDB 9.97 FPC 1  
Evaporative Family \_\_\_\_\_ Engine Type L5  
Liters (CID) 9.97 (608)

ABBREVIATIONSIgnition System

CA-Centrifugal Advance  
EEC-Electronic Engine Control  
EI-Electronic Ignition  
ESAC-Electronic Spark Advance  
Control  
VA-Vacuum Advance  
VR-Vacuum Retard

Exhaust Emissions Control System

AIP-Air Injection-Pump  
AIV-Air Injection-Valve  
CL-Closed Loop  
EGR-Exhaust Gas Recirculation  
EM-Engine Modification  
OC-Oxidation Catalyst System  
SPL-Smoke Puff Limiter or  
Throttle Delay  
TOC-Trap Oxidizer, Continual  
TOP-Trap Oxidizer, Periodical  
TR-Thermal Reactor  
TWC-Three-Way Catalyst System

Special Features

CCV-Combustion  
Chamber Valve  
CFI-Central Fuel  
Injection  
DID-Diesel  
Injection-Direct  
DIP-Diesel  
Injection-Prechamber  
EFI-Electronic  
Fuel Injection  
IC-Intercooler  
or aftercooler  
MFI-Mechanical  
Fuel Injection  
TC-Turbocharger

Fuel System

CFI, CL, DID, DIP, EFI, MFI  
nV-nVenturi Carburetor

VEHICLE MODELS:

Engine: Front \_\_\_\_\_ Mid. \_\_\_\_\_ Rear \_\_\_\_\_  
Drive: FWD \_\_\_\_\_ RWD \_\_\_\_\_ 4WD Full Time \_\_\_\_\_ 4WD Part Time \_\_\_\_\_

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HEAVY-DUTY DIESEL ENGINES

Manufacturer DAIMLER-BENZ AG Engine Family HDB 9.97 FPC 1  
Liter (CID) 9.97 (608) Eng. Type L5  
Emission Control Sys. and (Special Features) EM-SPL (DID-TC-IC)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm <sup>3</sup> /stroke (lbs/Hr)
OM 429 LA	Bosch PES 5 P 120 A 720 LS 7101	Bosch DLLA 134 S 999	235/2100	149-157 (86.4-91.0)	715 lbs.- ft. @ 1200	174-186 (57.6-61.6)

Date of Issue 10/28/86 Revisions: